## ISUZU MOTORS LTD.

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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
2009 9SZXH05.23FB		3EB	5.2	Diesel	PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, OC,				
		JI LI	3.2	Diesei	Diesel	LHDD	PTOX				
	Y ENGINE'S IDLE ONS CONTROL			A	DITIONAL IDLE EN	IISSIONS CO	NTROL 5				
30g N/A											
ENGINE (	(L)			ENGINE MO	DELS / CODES (ra	ted power, in	hp)				
5.2											
CNG/LN L/M/H H	Morsepower, - ww-ki NG =campressed/liqui HDD=light/medium/he	efied natur eavy heavy	=rour, ral gas _LPG=liquefre y-duty diesel; _UB=urb	d petroleum gas; <b>E85</b> =85% i an bus; <b>HDO</b> =heavy duty O	ethanol fuel; <b>MF</b> ≃mult ite.	rtuel a k.a. BF	R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel;				
TBI=throltle super charg	, bi r=diese particul e body fuel injection; ger; CAC≃charge air	SFI/MFI=: cooler; E	sequential/multi poid f	× dizer. HO25/O25≗neated/ µel injection; DGI=d.rect gasi gas recirculation / cooled E6	Dxygen sensor; HAF:	S/AFS=heaten/a	chve catalytic reduction – urea / ammonia; W on-fuel-ratio sensor (a.k.a., universal or inear o buretor; IDVDDI=indirect/direct diesel injection injection; SPL=smoke puff I miter; ECM/PCM=	xygen sensor);			
°ESS=en (per 13 CCF	igine shutdown syste R 1956.8(а)(6)(D). Е	m (per 13 xempt≂ex	CCR 1956 8(a)(6)(A)	(1); <b>30g</b> ÷30 g/hr NOx (per 1: [956 8(a)(6)(B) or for CNG/LI	3 CCR 1956.8(a)(6)(C NG fuel systems; N/A	); APS ≃interna ≟not applicable	al combustion auxiliary power system; ALT=als (e.g., Olto engines and vehicles)	ernative method			

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diese!" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

EMD=engine manufacturer diagnostic system (13 CCR 1971) OBD=on-board diagnostic system (13 CCR 1971 1);

in g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FΥP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	*	*	*	*	15.5	15.5	0.01	0.01	ł	*
FEL	*	*	1.23	1.23	1.2	1,2	*	*	• • • • • • • • • • • • • • • • • • • •	*	*	ļ
CERT	0.02	0.00	1.18	1.04	1.19	1.04	0.08	0.02	0.003	0.002	*	- · · · · · · · · · · · · · · · · · · ·
NTE	0.21		1.84		1.8		19.4		0.02			

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO-Euro III European Steady-State Cycle, including RMCSET-ram mode cycle supplemental emissions lesting; NTE=Not-to-Exceed, STD=standard or emission test cap; FEL=family emission limit; CERT=certification tevel; NMHC/HC=non-methane/hydrocarbon NOx=oxides of n-trogen. (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

**BE IT FURTHER RESOLVED**: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending final approval of "Certified Clean Idle" vehicle label. The manufacturer has until March 1, 2009 to resolve concerns on this conditional certification. This Executive Order is effective through March 1, 2009; engines produced after this date are not covered by this Executive Order unless provided with a "Certified Clean Idle" label approved by ARB. In addition, the engine models listed above are certified on the condition that vehicles into which the conditionally certified engines are installed and to which were affixed a "Certified Clean Idle" label that does not have final ARB approval shall have an ARB approved "Certified Clean Idle" label affixed no later than December 31, 2009.

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**BE IT FURTHER RESOLVED**: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [OTTO engines] and the incorporated 40CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_\_ day of December 2008.

Annette Hebert, Chief

Mobile Source Operations Division